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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/456,042	12/06/1999	ROBERT F. BONNER	15280-347100	5889
20350	7590 12/20/2001			
TOWNSEND AND TOWNSEND AND CREW, LLP			EXAMINER	
TWO EMBARCADERO CENTER EIGHTH FLOOR			GABEL, GAILENE	
SAN FRANCI	SCO, CA 94111-3834		ART UNIT	PAPER NUMBER
			1641	
			DATE MAILED: 12/20/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/456,042	BONNER ET AL.
	Office Action Summary	Examiner	Art Unit
		Gailene R. Gabel	1641
	The MAILING DATE of this communication a	ppears on the cover sheet with the	correspondence address
eriod fo	or <b>Reply</b> Ortened Statutory Period for Rep	IVIC CET TO EVOIDE 2 MONTH	H(S) FROM
THE I - Exter after - If the - If NO - Failu	MAILING DATE OF THIS COMMUNICATION risions of time may be available under the provisions of 37 CFR to SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no event, however, may a reply be sply within the statutory minimum of thirty (30) did will apply and will expire SIX (6) MONTHS frought the cause the application to become ABANDON	timely filed  ays will be considered timely.  on the mailing date of this communication.  VED (35 U.S.C. § 133).
1)🛛	Responsive to communication(s) filed on 0:	1 October 2001 .	
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.	
3)	Since this application is in condition for allocolosed in accordance with the practice under	wance except for formal matters, er <i>Ex parte Quayle</i> , 1935 C.D. 11,	prosecution as to the merits is , 453 O.G. 213.
)ispositi	on of Claims		
4)🛛	Claim(s) 1-46 is/are pending in the applicati	on.	
	4a) Of the above claim(s) <u>16-46</u> is/are withdr	awn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-15</u> is/are rejected.	•	
7)	Claim(s) is/are objected to.		
8)🖾	Claim(s) 1-46 are subject to restriction and/o	r election requirement.	
Applicati	ion Papers		
9) 🗌	The specification is objected to by the Exami	ner.	
10) 🗌	The drawing(s) filed on is/are: a)☐ acc		
	Applicant may not request that any objection to		
11)	The proposed drawing correction filed on		proved by the Examiner.
	If approved, corrected drawings are required in		
-	The oath or declaration is objected to by the l	Examiner.	
	ınder 35 U.S.C. §§ 119 and 120		
	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. § 119	(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority docume		
	2. Certified copies of the priority docume		
* (	Copies of the certified copies of the page application from the International See the attached detailed Office action for a limited.	Bureau (PCT Rule 17.2(a)).	
	Acknowledgment is made of a claim for dome		
a	a)  The translation of the foreign language   Acknowledgment is made of a claim for dome	provisional application has been r	eceived.
Attachmer			
1) 🔀 Notic 2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)
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### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's amendment of claims 14-15 and 34 filed 10/4/01 in Paper No. 9 is acknowledged and has been entered. Applicant's election of Group 1, claims 1-13, with traverse, is also acknowledged and has been entered. Accordingly, claims 1-46 are pending.
- 2. Applicant's traversal of the restriction requirement is acknowledged. The traversal is on the grounds that the inventions of Groups I, II, and V are not independent and distinct each from the other.

In response, Applicant's argument with regards to Group II in relation to Group I is persuasive. Accordingly, claims 14 and 15 have been rejoined with the claims of Group I.

Applicant's argument with regards to Group V; however, is not persuasive because the limitations and requirements of claims 34-46 in Group V are distinct and independent from those set forth in claims 1-13 and 14-15 of Group I. Literature search for each of these methods is distinct since the structural requirements of each invention are different. While searches would be expected to overlap, there is no reason to expect the searches to be coextensive.

This record clearly indicates that the delineated inventions are in fact patentably distinct each from the other and independent from the other. This requirement has been deemed proper and is, therefore, made FINAL.

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Accordingly, claims 1-46 are pending. Claims 1-15 are under examination.

## Drawings

3. This application has been filed with informal drawings which are acceptable for examination purposes only. The drawings in this application are also objected to by the Draftsperson (see PTO-948 attached). Correction is required. However, formal correction of noted defect can be deferred until application is allowed by the examiner.

#### Information Disclosure Statement

The Information Disclosure Statement (PTO-1449) filed 5/21/01 in Paper number 6 is acknowledged. The following references, Lataster et al., Kimmel et al., Whesel et al., and Meltzer et al. were not considered because neither a copy, an English translation nor a statement of relevancy was provided therefor.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 1, line 5 is indefinite in reciting, "substantially normal" because the phrase "substantially normal" is a subjective phrase which lacks a comparative basis for defining its metes and bounds.

Claim 1, line 6 lacks clear antecedent support in reciting, "the selectively activatable layer overlying the specimen".

Claims 2-15 have improper antecedent basis problems in reciting, "A process ... according to claim ...".

Claim 3 lacks antecedent support in reciting, "the selectively activatable layer overlying the desired target".

Claim 4 is indefinite in reciting, "includes" because it is unclear what other elements are "included" in the method step.

Claim 4 is ambiguous and lacks clear antecedent support in reciting, "where the selectively activating step includes: forming a mechanical bond with the targeted portion of the specimen" since there is a "selectively activating" step in claim 1 from which it depends and a "selectively activating" step in claim 3 which depends also from claim 1.

Claim 5 is non-idiomatic and, therefore, confusing in reciting "prepared". Further, it is unclear what is encompassed by the term "prepared surface" as recited in the claim.

Claim 5 is vague and indefinite in reciting, "components of the targeted specimen" because it is unclear what is encompassed by the term "components" as used in the claim.

Claim 7 is indefinite for using parenthetical symbols because it is unclear whether the limitations within the parentheses are a part of the claimed invention.

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Claim 8 is indefinite in reciting, "substantially normal" because the phrase "substantially normal" is a subjective phrase which lacks a comparative basis for defining its metes and bounds.

Claim 8 is ambiguous and lacks clear antecedent support in reciting, "removing the laser activation".

Claim 9 is ambiguous in reciting, "having the steps of: the allowing the volumetric expansion to cool step ...". Please clarify. Alternatively, claim 9 fails to recite a positive and active method step in the claim.

Claim 9 has improper antecedent basis problems in reciting, "a remainder of the specimen", second occurrence.

Claim 10 is ambiguous in reciting, "having the steps of: the allowing the volumetric expansion to cool step ...". Please clarify. Alternatively, claim 10 fails to recite a positive and active method step in the claim.

Claim 10 has improper antecedent basis problems in reciting, "a remainder of the specimen", second occurrence.

Claim 11 is indefinite in reciting, "includes" because it is unclear what other elements are "included" in the method step.

Claim 12 is ambiguous in reciting, "having the steps of: the activating layer includes ...". Please clarify. Alternatively, claim 12 fails to recite a positive and active method step in the claim.

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Claim 13 is ambiguous in reciting, "having the steps of: the activating layer is attached to ...". Please clarify. Alternatively, claim 13 fails to recite a positive and active method step in the claim.

Claim 14 is indefinite in reciting, "includes" because it is unclear what other elements or method steps are "included" in the claim.

Claim 15 is ambiguous in reciting, "volumetric expansion includes the heating and expanding of the first inner volume includes ...". Please clarify. Alternatively, claim 15 fails to recite a positive and active method step in the claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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6. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Goldsteinet al. (US 6,100,051).

Goldstein et al. disclose a process of laser capture microdissection from a specimen by selectively activating a selectively activatable layer (convex surface) causing a volumetric expansion of the layer. The activatable layer upon activation by a laser provides adhesive properties. The activatable layer is provided with a supporting substrate (distal end of a rod) and has a prepared adhesive transfer surface which forms a mechanical bond (maintains adhesion) to a portion of the specimen that is separated from the remainder of the specimen for visualization and analysis. The selectively activatable tissue is utilized to contact and capture targeted elements within a speciment, i.e. tissue sample (see Abstract and column 3). Goldstein et al. specifically disclose that the selectively activatable layer is made of heat (thermally) activatable materials which include strong long chain thermoplastic polymers and which undergo heat generated volumetric expansion such as ethylene vinyl acetate (EVA). EVA is preferred for its intrinsic absorption capability at 3 to about 10 micrometers (see columns 8-9 and column 11, lines 50-667). Solvents added thereto for solutions of hotmelt adhesive are matched for degree of effectiveness of the process and characteristics of the layer including evenness, smoothness, depth of the layer, and rate of cooling (drying) (see column 13).

No claims are allowed.

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#### Remarks

8. Prior art made of record are not relied upon but considered pertinent to the applicants' disclosure:

Bonner et al. (US 6,251,516) disclose isolation of cellular material using laser microdissection; extraction is achieved by activation of a transfer surface that contacts a tissue portion for separation.

Liotta et al. (US 6,010,888) disclose directly dissecting cellular material using a selectively activatable transfer surface for separating tissue samples.

Liotta et al. (US 5,843,657) disclose direct extraction of cellular material from tissue sections using a selectively activatable transfer surface to remove desired tissue.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gailene R. Gabel whose telephone number is (703) 305-0807. The examiner can normally be reached on Mon to Thur, 6:30 AM - 4:00 PM and alt Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (703) 308-3399. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

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Gailene R. Gabel Patent Examiner Art Unit 1641

December 17, 2001

LONG V. LE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

12/17/01